



Business Message Standard (BMS) Order

BMS Release: 2.4.0, BRG Name: eCom BRG

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Document Summary

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Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
20070321	Stef SPAAN, GS1 Netherlands	07-000098
20070312	Stef SPAAN, GS1 Netherlands	07-000077
20060206	GS1 Global Office	06-000039
20031113	Foot Locker	03-000167
20031020	Unilever Bestfood UK	03-000145
20011029	Venator	01-000094

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
Order	20040520	1.4.4
UK Food Service Ordering	20040709	0.2
Common Library	200707	2.4

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
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Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20040809	0.1	Vicky CARO	Incorporation of UK Food Service Requirements	<p>The intention of updating the Order publication is to include the business requirement from the user community that needs the capability to issue a Cross Docking Order and UK Foodservice Order using the EAN.UCC XML standards.</p> <p>Cross Dock Order is the process where the buyer sends an Order specifying an intermediate destination in addition to the final destination. The seller packs individually per final destination and ships all the items in the order to one cross-docking destination. For more information, refer to "Guide to use the XML EAN.UCC standards for Cross Docking Order, v 0.3, May, 2004</p> <p>The UK Foodservice Order process provides the ability for a buyer to order variable Quantities of trade items/services in the UK Foodservice sector.</p>	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20040816	0.2	Vicky CARO	Incorporate comments and adjustments on the text and models as a result of Order BRG meeting on 20040811	<ul style="list-style-type: none"> Update list of Order BRG members Adjustments of the Data Description section and Class Diagrams: Consistency with BRD Order 1.4.4 Elimination of Contract reference date Inclusion of unit of measurement within the attributes of Order Line item. 	
20040903	0.3	Vicky CARO	Incorporate comments and adjustments on the text and models as a result of Order BRG meeting on 20040825	Adjustments of the Data Description section and Class Diagrams: use of Contract reference	
20041011	0.4	Vicky CARO	Incorporate decisions on comments received during public review Adjust the document according to new template approved	<ul style="list-style-type: none"> Update document to BMS template approved 20041001 Adjustments on text for clarifications. Section: 1.1.1, Adjustments on the data descriptions for clarification. Section 1.5.1 Adjustments on text and diagram agreed after public review comments resolution. 	
20050217	0.5.0	John RYU	Based on emails from Vicky CARO	<ul style="list-style-type: none"> Harmonized the model Updated the GDD Platform For details view section 10 Summary of Changes 	Model P4CL: 5772 BSD P4CL: 5773
20050218	0.6.0	John RYU and Vicky CARO	Updates Seeking Motion for XML Development.	<ul style="list-style-type: none"> Updated missing definitions Updated Test Data 	Model P4CL: 5774 BSD P4CL: 5776
20050315	0.7.0	John RYU	Copied GDD from GDD platform	Section 1.4.6	BSD P4CL: 6035
20060406	0.8.0	John RYU	Upgrade for BMS Version 2.1 release	Upgraded Order for BSM Release version 2.1	BSD P4CL:8242

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20070709	0.9.0	John RYU	Upgrade for BMS Version 2.4 Release Submitted for Peer Review	Noted in Summary of Changes	MDL P4CL: 9608 BSD P4CL: 9610
20070718	0.9.1	John RYU	eCom BRG Motioned for TSD Development	Noted in Summary of Changes	BSD P4CL: 9666
20070824	0.9.2	John RYU	Completed TSD Development	Posted for Public Review	BSD P4CL: 9794
20070911	0.9.3	John RYU	Incorporate Public Review Resolution Eballot Begins 20070911 and ends 20070925	Noted in Summary of Changes	BSD P4CL: 9940
20070925	0.9.4	John RYU	eCom BRG eBallot Approved	Updated BMS to Approved	BSD P4CL: 9999

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1. Business Domain View

1.1. Problem Statement / Business Need

The Order provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.

The Order may be used alone when the buyer and seller have aligned data such as parties, item, pricing, payment terms, etc., prior to order creation.

The process is simplified by having one order placed for one delivery for one location at one time.

1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced BRAD(s).

The objective is to upgrade the GS1 Order Message standard, according to the requirements of the referenced change request.

- 07-000098
- 07-000077
- 06-000039
- 03-000167
- 03-000145
- 01-000094

1.3. Audience

The audience for this document is the global business community and the senders/receivers of purchase orders, changes to purchase orders, and responses.

1.4. References

Reference Name	Description
Order Business Requirements Document	BRD Version 1.4.4
UK Food Service Ordering BRD	BRD Version 0.2
Business Requirements Analysis Document (BRAD) For Multi Shipment Order Receipt Response and Excise Tax Free	BRAD Version 0.0.4

1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

1.5.1. BRG Work Group

Function	Name	Company / organisation
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BRG Member	Tan Jin SOON	GS1 Singapore
BRG Member	Ste SPAAN	GS1 Netherlands
BRG Member	Chi YANG	UPS

1.5.2. Design Team Members

Function	Name	Organisation
Modeler	John RYU	GS1 Global Office
XML Technical Designer	Dipan ANARKAT	GS1 Global Office
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Giovanni BIFFI	GS1 Global Office

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	Global
Product	All
Process	Order
System Capabilities	GS1 System
Official Constraints	None

3. Additional Technical Requirements Analysis

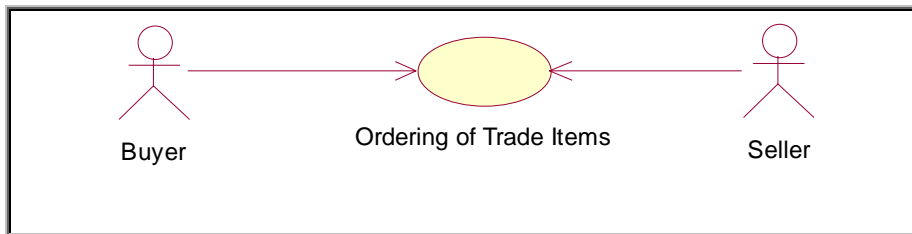
Not Applicable

3.1. Technical Requirements (optional)

Number	Statement	Rationale
	Not Applicable	

4. Business Transaction View

4.1. Business Transaction Use Case Diagram Ordering



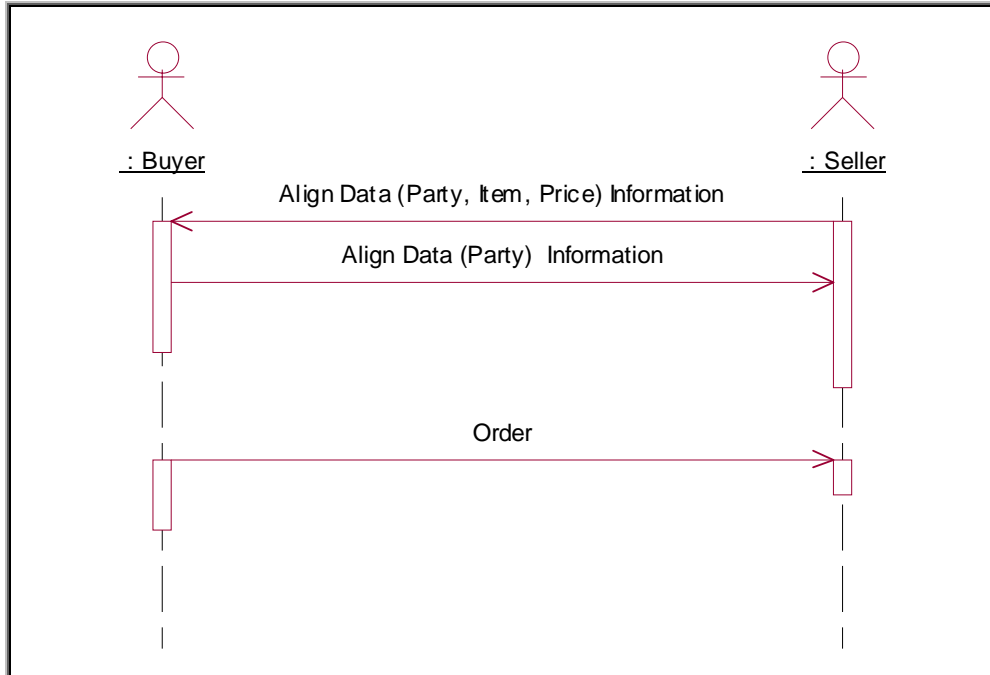
4.2. Use Case Description

Use Case ID	UC-1		
Use Case Name	Ordering of Trade Items		
Use Case Description	This Use Case provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.		
Actors (Goal)	Buyer, Seller		
Performance Goals	The seller has received the order sent by the buyer.		
Preconditions	The Buyer and Seller have aligned Party and Item information.		
Post conditions	Success: The Seller has received the Order sent by the Buyer. Failure: The Seller hasn't received the Order sent by the Buyer		
Scenario	Begins when... the Buyer sends the Order to the Seller..		
	Continues with...		
	Step #	Actor	Activity Step
	1		
	2		
	3		
	Ends when... Ends		
Alternative Scenario	Step #	Actor	Activity Step
	1	Not Applicable	
	2		
	3		
Related Requirements	Not Applicable		
Related Rules	Not Applicable		

4.3. Business Transaction Activity Diagram(s)

Not Applicable

4.4. Business Transaction Sequence Diagram(s) (optional)



5. Information Model (Including GDD Report)

5.1. GDD Report

5.1.1. GDD Order

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
Order				The Order provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.			BRD For Order V 1.4.4
	specialDeliveryNote			Specify delivery instructions for the order that cannot be categorized into predefined values.	0..1	Language. Identifier;Language. Locale. Identifier;Text. Content	BRD For Order V 1.4.4
			AllowanceCharge	Contains the information related with the allowance charge involved in the order process.	0..*		BRD For Order V 1.4.4
			Document	Contains the information related with the document in the Order.	1..1		BRD For Order V 1.4.4
		orderIdentification	EntityIdentification	The unique identification of the Order	1..1		BRD For Order V 1.4.4

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
			OrderHeaderIndicator	Contains the information related to the header indicator information.	1..1		[BRAD For Multi Shipment Order Receipt Response and Excise Tax Free V 0.0.4] {BR 1 BR 2}
			OrderLogisticalInformation	Contains the information related with the dates and destinations of the goods or services.	1..1		BRD For Order V 1.4.4
			OrderPartyInformation	Contains the information related with the parties involved in the order process	1..1		BRD For Order V 1.4.4
			PaymentTerms	Contains the information related with the payment terms in the Order.	0..*		BRD For Order V 1.4.4
			OrderLineItem	Specify the information related to each line item within the order.	1..*		BRD For Order V 1.4.4
			TradeAgreement	Specify the trade agreement that the order is referring to.	0..1		BRD For Order V 1.4.4
OrderLineItem				Order Line Item provides the order detail line item information.			BRD For Order V 1.4.4
			AllowanceCharge	Contains the information related with the allowance charge in the detail order level.	0..*		BRD For Order V 1.4.4
			SimpleOrderLineItem	Specify the information related to each line item within the order.	1..1		BRD For Order V 1.4.4

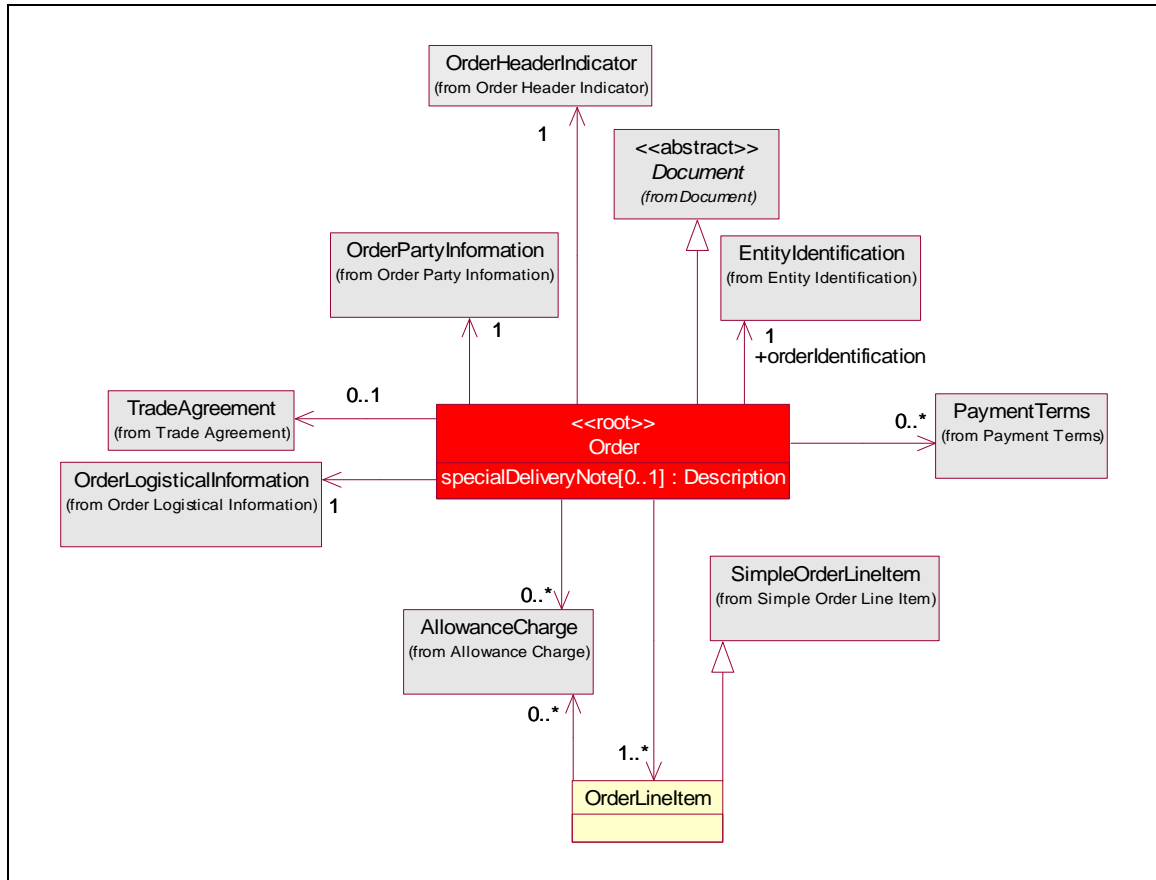
5.1.2. GDD Order Header Indicator

New Entry added into Common Library For BMS Release 2.4

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
OrderHeaderIndicator				Contains the order header indicator information.			[BRAD For Multi Shipment Order Receipt Response and Excise Tax Free V 0.0.4] {BR 1 BR 2}
	isApplicationReceiptAcknowledgementRequired			A buyer's requirement to receive an order receipt acknowledgement from the seller's application system to ensure the seller received the order message.	1..1	Boolean	[BRAD For Multi Shipment Order Receipt Response and Excise Tax Free V 0.0.4] {BR 1 BR 2}
	isOrderFreeOfExciseTaxDuty			An excise tax is a tax applied to the consumption of a particular type of good, such as alcohol or tobacco. Excise taxes apply at the same rates to domestic or imported goods. They must not be confused with customs duties which apply to imports only.	1..1	Boolean	[BRAD For Multi Shipment Order Receipt Response and Excise Tax Free V 0.0.4] {BR 1 BR 2}

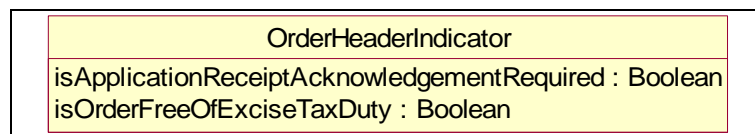
5.2. Class Diagrams

5.2.1. Order



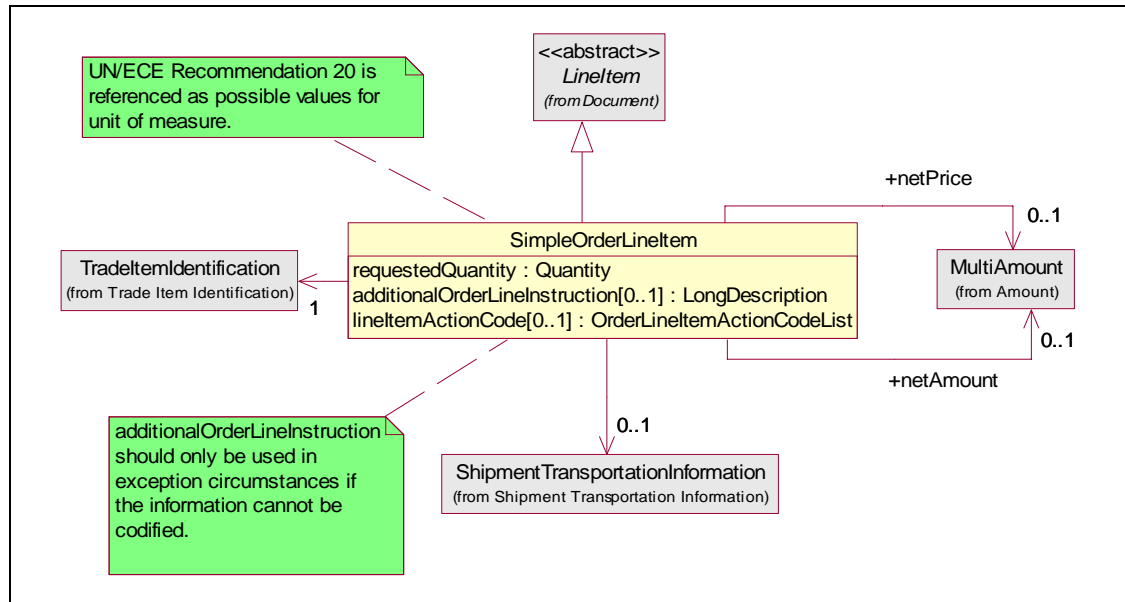
5.2.2. Order Header Indicator

For reference purpose only and included in the Common Library BMS Release 2.4



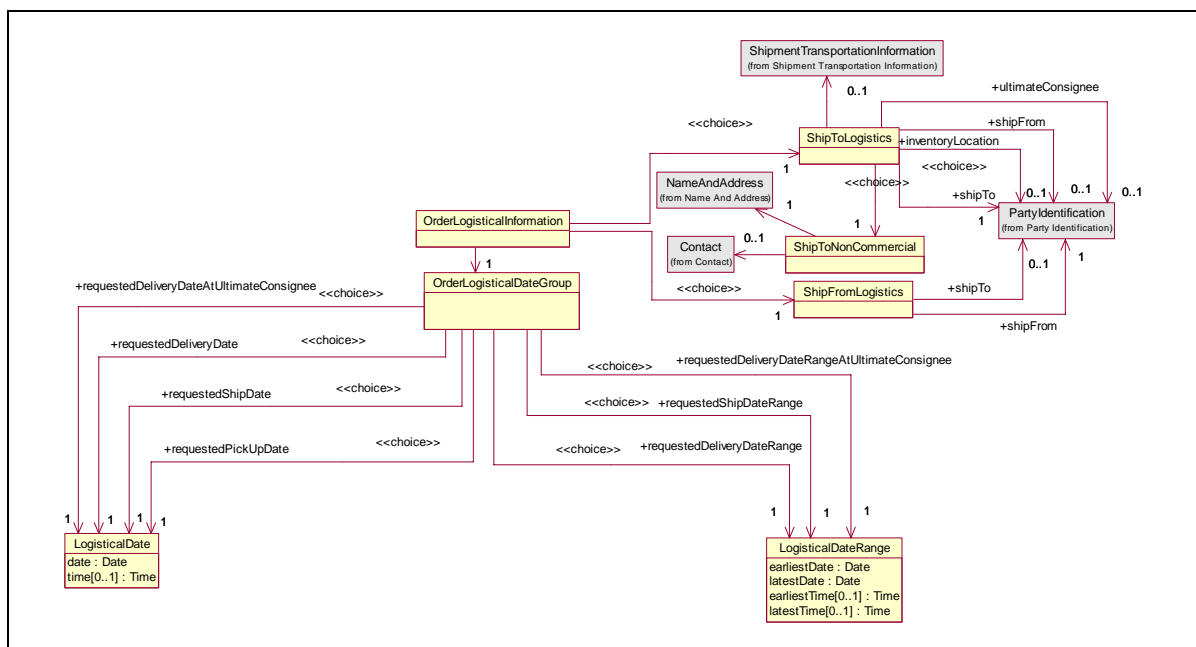
5.2.3. Simple Order Line Item

For reference purpose as Simple Order Line Item was modified in the Common Library BMS Release 2.3



5.2.4. Order Logistical Information

For reference purpose as Simple Order Line Item was modified in the Common Library BMS Release 2.3



5.3. Code Lists

Not Applicable

Code List Name	Code List Description

6. Business Document Example

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
4098765000010	Supplier
5412345000037	Ship To

The order identification is PO3352, and the order is placed on the 3rd of November 2006 at 11:00 AM.

The buyer requires an application receipt acknowledgement and the order is not free of excise tax duty.

The buyer (5412345000013) orders the following:

GS1 Global Trade Item Number	Quantity	Order Line Instruction
4098765000027	48	Fragile
4098765000034	24	Perishable

7. Implementation Considerations

Not Applicable

8. Testing

Not Applicable

8.1. Pass / Fail Criteria

No.	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1	Not Applicable				

8.2. Test Data

Attribute	Value
Document	
creationDateTime	2006-11-03 11:00

Attribute	Value
documentStatus	ORIGINAL
Entity Identification (+orderIdentification)	
uniqueCreatorIdentification	PO3352
PartyIdentification (+contentOwner)	
gLN	5412345000013
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	4098765000010
PartyIdentification (+buyer)	
gLN	5412345000013
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderLogisticalInformation	
ShipToLogistics	
PartyIdentification (+shipTo)	
gLN	5412345000037
OrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	1
requestedQuantity	48, EA
additionalOrderLineInstruction	Fragile
TradeItemIdentification	
gTIN	4098765000027
OrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	2
requestedQuantity	24, EA
additionalOrderLineInstruction	Perishable
TradeItemIdentification	
gTIN	4098765000034

9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number
<p>Document class diagram (Common Library: Common: Components: Document)</p> <ul style="list-style-type: none"> Added LineItemCount class Contains attribute: number Added LineItemCount class to New Order Class Diagram <p>Order class diagram (Business Process: Order: Order)</p> <ul style="list-style-type: none"> Added Reference class to New Order class diagram (Roles: contractReferenceNumber, contractReferenceDate) <p>Order class diagram (Business Process: Order: Order)</p> <ul style="list-style-type: none"> Added TextDescription class to New Order class diagram (SpecialDeliveryNotes) <p>Order Common Class Diagram</p> <ul style="list-style-type: none"> Added Measurement class relating to SimpleOrderLineItem class Contains UnitOfMeasure attribute 	Version 0.1.0	CR 03-000145 CR 03-000167
<ul style="list-style-type: none"> Update list of Order BRG members Adjustments of the Data Description section and Class Diagrams: <ul style="list-style-type: none"> Consistency with BRD Order 1.4.4 Elimination of Contract reference date Inclusion of unit of measurement within the attributes of Order Line item. 	Version 0.2.0	Not Applicable
Adjustments of the Data Description section and Class Diagrams: use of Contract reference	Version 0.3.0	Not Applicable
<ul style="list-style-type: none"> Update document to BMS template approved 20041001 Adjustments on text for clarifications. Section: 1.1.1, Adjustments on the data descriptions for clarification. Section 1.5.1 Adjustments on text and diagram agreed after public review comments resolution. 	Version 0.4.0	Not Applicable

Change	BSD Version	Associated CR Number
<ul style="list-style-type: none"> ■ Copied the GDD platform into the BSD. (Need definitions for all definitions with either None or Not Available). ■ Replaced Contract Reference class with Trade Agreement class. Trade Agreement class is reused from the MultiShipTo Order work. Note the tradeAgreementReferenceDate attribute is now optional as it was mandatory in the previous version. ■ Deleted association from Trade Agreement class to Order Party Information class. ■ Replaced specialDeliveryNotes as an attribute inside the Order class. The modified attribute specialDeliveryNote[0..1]:Description allows for the text and the associated language code. ■ Updated footer copyright as 2003-2005 	Version 0.5.0	Not Applicable
<ul style="list-style-type: none"> ■ Updated missing definitions in GDD ■ Included Test Data or Sample Data 	Version 0.6.0	Not Applicable
Copied GDD platform output into BSD.	Version 0.7.0	Not Applicable
Upgraded BMS document using BMS Template Version 0.4 and sourced BSD Version 0.7.0	Version 0.8.0	Not Applicable
Upgraded for BMS Release 2.4.0 Class Diagram <ul style="list-style-type: none"> ■ Added mandatory (1..1) association from Order to OrderHeaderIndicator ■ Reference SimpleOrderLineItem which was enhanced for BMS Release 2.3.0 ■ Referenced OrderLogisticalInformation which was enhanced for BMS Release 2.3.0 GDD Report <ul style="list-style-type: none"> ■ Defined OrderLineItem as Order Line Item provides the order detail line item information. Sample Data <ul style="list-style-type: none"> ■ Updated with new class diagram additions. 	Version 0.9.0	CR 07-000077 CR 07-000098
Peer Review incorporated 9619 Received eCom BRG motion for TSD Development	Version 0.9.1	Not Applicable
Posted for Public Review	Version 0.9.2	Not Applicable
Incorporate Public Review Resolution And eBallot Starts on 20070911 and ends on 20070925 Test Data Section 8.2 Updated Boolean Indicator to reflect TRUE or FALSE. OrderHeaderIndicator isApplicationReceiptAcknowledgementRequired TRUE isOrderFreeOfExciseTaxDuty FALSE	Version 0.9.3	Not Applicable
eCom BRG eBallot Approved Updated BMS to Approved	Version 0.9.4	Not Applicable